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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 20

Complete if Known	
Application Number	10/678598
Filing Date	October 3, 2008
First Named Inventor	Robert C. Lam
Art Unit	1714
Examiner Name	Sanders
Attorney Docket Number	DKT00077 (0309.4092.901)

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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First Named Inventor	Robert C. Lam
Art Unit	Sanders
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Attorney Docket Number	DKT00077 (0309.4092.901)

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First Named Inventor	Robert C. Lam
Art Unit	1714
Examiner Name	
Attorney Docket Number	DKT00077 (0309.4092.901)

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Filing Date	October 3, 2008
First Named Inventor	Robert C. Lam
Art Unit	1714
Examiner Name	Sanders
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Examiner Signature		Date Considered	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 7 of 20

Complete if Known	
Application Number	10/678598
Filing Date	October 3, 2008
First Named Inventor	Robert C. Lam
Art Unit	1714
Examiner Name	Sanders
Attorney Docket Number	DKT00077 (0309.4092.901)

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US- 4674616	06-23-1987	Mannino, Jr.	
		US- 4694937	09-22-1987	Jonas	
		US- 4698889	10-13-1987	Patzer et al.	
		US- 4700828	10-20-1987	Winckler	
		US- 4726455	02-23-1988	East	
		US- 4732247	03-22-1988	Frost	
		US- 4742723	05-10-1988	Lanzerath et al.	
		US- 4743634	05-10-1988	Royer	
		US- 4770283	09-13-1988	Putz et al.	
		US- 4772508	09-20-1988	Brassell	
		US- 4792361	12-20-1988	Double et al.	
		US- 4861809	08-29-1989	Ogawa et al.	
		US- 4878282	11-07-1989	Bauer	
		US- 4913267	04-03-1990	Campbell et al.	
		US- 4915856	04-10-1990	Jamison	
		US- 4917743	04-17-1990	Gramberger et al.	
		US- 4918116	04-17-1990	Gardziella et al.	
		US- 4927431	05-22-1990	Buchanan et al.	
		US- 4951798	08-28-1990	Knoess	

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Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T[6]
		EP1391629 A1	02-25-2004	BorgWarner Inc.		
		EP1394438 A1	03-03-2004	BorgWarner Inc.		
		EP1396655 A1	03-10-2004	BorgWarner Inc.		
		EP1517062 A1	03-23-2005	BorgWarner Inc.		
		EP1521004 A2	04-06-2005	BorgWarner Inc.		
		EP1521007 A2	04-06-2005	BorgWarner Inc.		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 8 of 20

Complete if Known	
Application Number	10/678598
Filing Date	October 3, 2008
First Named Inventor	Robert C. Lam
Art Unit	1714
Examiner Name	Sanders
Attorney Docket Number	DKT00077 (0309.4092.901)

U. S. PATENT DOCUMENTS

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		US- 4950530	08-21-1990	Shibatani	
		US- 4983457	01-08-1991	Hino et al.	
		US- 4986397	01-22-1991	Vierk	
		US- 4995500	02-26-1991	Payvar	
		US- 4997067	03-05-1991	Watts	
		US- 5004497	04-02-1991	Shibata et al.	
		US- 5017268	05-21-1991	Clitherow et al.	
		US- 5033596	07-23-1991	Genise	
		US- 5038628	08-13-1991	Kayama	
		US- 5076882	12-31-1991	Oyanagi et al.	
		US- 5080969	01-14-1992	Tokumura	
		US- 5083550	01-28-1992	Seiz et al.	
		US- 5093388	03-03-1992	Siemon, Jr. et al.	
		US- 5094331	03-10-1992	Fujimoto et al.	
		US- 5101953	04-07-1992	Payvar	
		US- 5105522	04-21-1992	Gramberger et al.	
		US- 5143192	09-01-1992	Vojacek et al.	
		US- 5164256	11-17-1992	Sato et al.	
		US- 5211068	05-18-1993	Spitale et al.	

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		EP1614926 A1	01-11-2006	BorgWarner Inc.		
		EP1911990 A2	04-16-2008	Honeywell International		
		GB1054890	01-11-1967	Ferodo Lmtd.		
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		GB2241246 A	08-28-1991	Nisshinbo Industries Inc		
		GB2224285 A	05-02-1990	Honda Giken Kogyo Kabushi		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 9 of 20

Complete if Known	
Application Number	10/678598
Filing Date	October 3, 2008
First Named Inventor	Robert C. Lam
Art Unit	1714
Examiner Name	Sanders
Attorney Docket Number	DKT00077 (0309.4092.901)

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		US- 5221401	06-22-1993	Genise	
		US- 5233736	08-10-1993	Hill	
		US- 5259947	11-09-1993	Kalback et al.	
		US- 5266395	11-30-1993	Yamashita et al.	
		US- 5269400	12-14-1993	Fogelberg	
		US- 5290627	03-01-1994	Ikuta	
		US- 5313793	05-24-1994	Kirkwood et al.	
		US- 5332075	06-26-1994	Quigley et al.	
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		US- 5354603	10-11-1994	Errede et al.	
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		~~US- 5866884~~	~~08-07-1885~~	~~Miyoshi et al.~~	
		US- 5396552	03-07-1995	Jahn et al.	
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		US- 5445060	08-29-1995	Randall et al.	
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		US- 5460255	10-24-1995	Quigley et al.	
		US- 5472995	12-05-1995	Kaminski et al.	

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		JP3281686 A	12-12-1991	Nissin Kogyo KK		
		JP5247233 A	09-24-1993	Toyota Motor Corp		
		JP07-151174	06-13-1996	BorgWarner Automotive Inc		
		JP07-173301	07-11-1995	BorgWarner Automotive Inc		
		JP09-176333	07-08-1997	BorgWarner Automotive Inc		
		JP10110740 A	04-28-1998	BorgWarner Automotive		

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Sheet 10 of 20

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Filing Date	October 3, 2008
First Named Inventor	Robert C. Lam
Art Unit	1714
Examiner Name	Sanders
Attorney Docket Number	DKT00077 (0309.4092.901)

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		US- 5474159	12-12-1995	Soennecken et al.	
		US- 5478642	12-26-1995	McCord	
		US- 5501788	03-26-1996	Romine et al.	
		US- 5501788	03-26-1996	Romine et al.	
		US- 5520866	05-28-1996	Kaminski et al.	
		US- 5529666	06-25-1996	Yesnik	
		US- 5540621	06-30-1996	Keester et al.	
		US- 5540832	06-30-1996	Romino	
		US- 5540903	06-30-1996	Romine	
		US- 5571372	11-05-1996	Miyaishi et al.	
		~~US- 5585100~~	~~12-17-1996~~	~~Kearsey~~	
		US- 5615758	04-01-1997	Nels	
		US- 5620075	04-15-1997	Larsen et al.	
		US- 5639804	06-17-1997	Yesnik	
		~~US- 5646076~~	~~07-08-1997~~	~~Rodz~~	
		US- 5648041	07-15-1997	Rodgers et al.	
		~~US- 5662993~~	~~09-02-1997~~	~~Winkler~~	
		US- 5670231	09-23-1997	Ohya et al.	
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		JP1134002 A	05-26-1989	Ibiden Co. Ltd.		
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		JP1307529 A	12-12-1989	Aisin Chem		
		JP2000-091186	03-31-2000	Dainippon Screen Mfg Co		
		JP2002005317 A	01-09-2002	Yokohama Hydex Co.		
		JP20000336343	12-05-2000	BorgWarner Inc.		

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Sheet 11 of 20

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Filing Date	October 3, 2008
First Named Inventor	Robert C. Lam
Art Unit	1714
Examiner Name	Sanders
Attorney Docket Number	DKT00077 (0309.4092.901)

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		US- 5674947	10-07-1997	Oishi et al.	
		US- 5676577	10-14-1997	Lam et al.	
		US- 5705120	01-06-1998	Ueno et al.	
~~[illegible]~~		~~US- 5707605~~	~~01-13-1998~~	~~Lam et al.~~	
		US- 5718855	02-17-1998	Akahori et al.	
		US- 5733176	03-31-1998	Robinson et al.	
		US- 5753018	05-19-1998	Lamport et al.	
~~[illegible]~~		~~US- 5758858~~	~~05-19-1998~~	~~Lam et al.~~	
		US- 5766523	06-16-1998	Rodgers et al.	
		US- 5771691	06-30-1998	Kirkwood et al.	
		US- 5775468	06-17-1998	Lam et al.	
		US- 5776288	06-07-1998	Stefanutti et al.	
		US- 5777791	07-07-1998	Hedblom	
		US- 5792544	08-11-1998	Klein	
		US- 5803210	09-08-1998	Kohno et al.	
~~[illegible]~~		~~US- 5816001~~	~~10-06-1998~~	~~Sinsky~~	
		US- 5827610	10-27-1998	Ramachandran	
		US- 5842551	12-01-1998	Nels	
		US- 5834551	11-10-1998	Haraguchi et al.	

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		JP2002003280 A	01-09-2002	Toray Industries		
		JP2003003155	01-08-2003	Aisin Seiki: Aisin Chem		
		JP2004132547 A	04-30-2004	BorgWarner Inc.		
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		JP2004266087 A	09-30-2004	Toyota Central Res & Dev		
		JP2017223 A	01-22-1990	FCC KK		

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		US- 5845754	12-08-1998	Weilant	
		~~US- 5858244~~	~~01-05-1999~~	~~Lam et al.~~	
		US- 5858166	01-12-1999	James et al.	
		~~US- 5858883~~	~~01-12-1999~~	~~Lam et al.~~	
		US- 5895716	04-13-1999	Fiala et al.	
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		US- 5919528	07-06-1999	Huijs et al.	
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		~~US- 5952249~~	~~09-14-1999~~	~~Gibson et al.~~	
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		~~US- 5965650~~	~~10-12-1999~~	~~Smith et al.~~	
		US- 5975270	11-02-1999	Tokune et al.	
		US- 5975988	11-02-1999	Christianson	
		~~US- 5980375~~	~~11-23-1999~~	~~Berg~~	
		~~US- 5989390~~	~~11-23-1999~~	~~Lee~~	
		~~US- 5998307~~	~~12-07-1999~~	~~Lam et al.~~	
		US- 5998311	12-07-1999	Nels	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T[6]
		JP2002234951 A	08-23-2002	BorgWarner Inc.		
		JP58180573 A	10-22-1983	Akechi Ceramics KK		
		JP5009458 A	01-19-1993	Toshiba Tungaloy Co Ltd		
		JP55005907 A	01-17-1980	Kureha Chemical Ind Co Lt		
		JP59103040 A	06-14-1984	Komatsu Mfg Co Ltd		
		JP6240233 A	08-30-1994	Toshiba Tungaloy Co Ltd		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 13 of 20

Complete if Known	
Application Number	10/167598
Filing Date	October 3, 2003
First Named Inventor	Robert C. Lam
Art Unit	1714
Examiner Name	Sanders
Attorney Docket Number	DKT00077 (0309.4092.901)

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US- 5998311	12-07-1999	Nels	
		US- 6000510	12-14-1999	Kirkwood et al.	
		~~US- 6001750~~	~~12-14-1999~~	~~Lam~~	
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		US- 6042935	03-28-2000	Krenkel et al.	
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		US- 6121168	09-19-2000	Irifune et al.	
		US- 6123829	09-26-2000	Zommerman et al.	
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		US- 6132877	10-17-2000	Winckler et al.	
		US- 6140388	10-31-2000	Nass et al.	
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		~~US- 6184050 B1~~	~~02-27-2001~~	~~Yamil~~	
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		JP6299434 A	10-25-1994	Staubli Sa Ets		
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		JP176667 A	07-08-1997	Nitto Denko Corp		
		JP9324824 A	12-16-1997	Jatco Corp		

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Sheet 14 of 20

Complete if Known	
Application Number	10/678598
Filing Date	October 3, 2008
First Named Inventor	Robert C. Lam
Art Unit	1714
Examiner Name	Sanders
Attorney Docket Number	DKT00077 (0309.4092.901)

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		US- 6265066 B1	07-24-2001	Suzuki et al.	
		~~US- 6284815 B1~~	~~09-04-2001~~	~~Sasahara et al.~~	
		US- 6291040 B1	09-18-2001	Moriwaki et al.	
		US- 6315974 B1	11-13-2004	Murdie et al.	
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		US- 6383605 B1	05-07-2002	Ejiri	
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		US- 6423668 B1	07-23-2002	Nakanishi et al.	
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		WO2005/102962 A1	11-03-2005	Honeywell International		
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		WO2007/055951 A1	05-18-2007	BorgWarner Inc.		
		WO95/26473	10-05-1995	Valeo		

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Sheet 15 of 20

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Application Number	10/678598
Filing Date	October 3, 2008
First Named Inventor	Robert C. Lam
Art Unit	1714
Examiner Name	Sanders
Attorney Docket Number	DKT00077 (0309.4092.901)

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		US- 6652363 B2	11-25-2003	Kramer et al.	
		US- 6668891 B2	12-30-2003	Collis	
		US- 6703117 B2	03-09-2004	Gruber et al.	
		US- 6831146 B2	12-14-2004	Aiba et al.	
		US- 6855410 B2	12-15-2005	Buckley	
		~~US- 6875711 B2~~	~~05-05-2005~~	~~Chen et al.~~	
		US- 6951504 B2	10-04-2005	Adefris et al.	
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		US- 7160913 B2	01-09-2007	Schneider	
		US- 7208432 B1	04-24-2007	Beier et al.	
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		WO96/10701 A1	04-11-1996	Nels, Terry E.		
		WO98/09093 A1	03-05-1998	BorgWarner Inc.		
		WO99/35415 A1	07-15-1999	Nels, Terry E.		

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First Named Inventor	Robert C. Lam
Art Unit	1714
Examiner Name	Sanders
Attorney Docket Number	DKT00077 (0309.4092.901)

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		Application No. EP01309199 Search Report, completed 15 February 2002	
		Application No. EP02257364 Search Report, completed 3 December 2003	
		Application No. EP03255504 Search Report, completed 4 December 2003	
		Application No. EP03256313 Search Report, completed 5 March 2009	
		Application No. EP04253746 Search Report, completed 3 May 2005	
		Application No. EP04255582 Search Report, completed 15 June 2007	
		Application No. EP04255993 Search Report, completed 5 June 2009	
		Application No. EP05254284 Search Report, completed 2 November 2005	
		Application No. EP05253694 Search Report, completed 18 October 2005	
		Application No. EP05254474 Search Report, completed 21 October 2005	

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First Named Inventor	Robert C. Lam
Art Unit	1714
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		Application No. PCT/US06/15769 International Search Report and Written Opinion, International Filing Date 25 April 2006	
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		ASTM D638-08 Standard Test Method for Tensile Properties of Plastics, Copyright 1996-2009, pp. 1-4 ASTM International, West Conshohocken, PA, US	
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(Use as many sheets as necessary)

Sheet 20 of 20

Complete if Known	
Application Number	10/678598
Filing Date	October 3, 2008
First Named Inventor	Robert C. Lam
Art Unit	1714
Examiner Name	Sanders
Attorney Docket Number	DKT00077 (0309.4092.901)

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
		USSN 11/410,722, FRICTION MATERIAL, Robert C. Lam, Filed 04-25-2006	
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		~~USSN 10/678,598, MIXED DEPOSIT FRICTION MATERIAL, Robert C. Lam, Filed 10-03-2003~~	
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